(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 15 July 2004 (15.07.2004)

PCT

(10) International Publication Number WO 2004/059533 A3

(51) International Patent Classification⁷:

G06F 17/30

(21) International Application Number:

PCT/GB2003/005699

(22) International Filing Date:

31 December 2003 (31.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0230331.1 31 December 2002 (31.12.2002) GB 0322862.4 30 September 2003 (30.09.2003) GB

- (71) Applicant (for all designated States except US): BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY [GB/GB]; 81 Newgate Street, London EC1A 7AJ (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROBERTSON, Derrick, Diarmuid [GB/GB]; 97D The Thoroughfare, Woodbridge, Suffolk IP12 1AS (GB). MCKEE, Paul, Francis [GB/GB]; 2 Celandine Court, Braiswick, Colchester, Essex CO4 5UQ (GB).

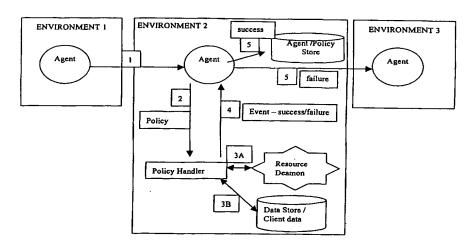
- (74) Agent: NASH, Roger, William; BT Group Legal, Intellectual Property Department, PPC5A, BT Centre, 81 Newgate Street, London EC1A 7AJ (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 20 January 2005

[Continued on next page]

(54) Title: DISTRIBUTED STORAGE NETWORK



(57) Abstract: A distributed storage network of computers is disclosed in which a determination as to whether to store a data item at a computer connected to said network is made in dependence on a policy document associated with that data item. The policy document is constructed in accordance with a Document Type Definition expressed in eXtensible Markup Language (XML).

WO 2004/059533 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

Inter: al Application No PC1/up 03/05699

A. CLASS	A. CLASSIFICATION OF SUBJECT MATTER			
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F17/30				
According to be because it as the second sec				
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
	ocumentation searched (classification system followed by classification	tion gymbole)		
IPC 7 GOGF				
Documenta	tion searched other than minimum documentation to the extent the			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)				
EPO-Internal, INSPEC, WPI Data, PAJ				
C D001111				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.	
V	200			
X	ROBERTSON D ET AL: "Persistent,	_Reliable,	1,15-19	
	Decentralised File Storage - DFS	"		
	LONDON COMMUNICATIONS SYMPOSIUM, 9 September 2002 (2002-09-09), p	XX, XX,		
	XP002302658	ages 1-4,		
	cited in the application			
Υ	the whole document		2-14	
		,		
		-/	·	
			'	
	1	.		
			ļ	
		ł		
Y Further documents are listed in the continuation of box C. Patent family members are listed in annex.				
° Special categories of cited documents:				
"A" document defining the general state of the art which is not "T" later document published after the international filing date or priority date and not in conflict with the application but				
considered to be of particular relevance "E" earlier document but published on or affor the international invention			· · · · ·	
filing date A document of particular relevance; the claimed invention			aimed Invention	
which is	nt which may throw doubts on priority claim(s) or s cited to establish the publication date of another	involve an inventive step when the doc	ument is taken alone	
citation	or other special reason (as specified) nt referring to an oral disclosure, use, exhibition or	"Y" document of particular relevance; the cla cannot be considered to involve an inve	entive step when the	
otner m	eans	document is combined with one or mor ments, such combination being obvious	e other such docu- s to a person skilled	
later the	nt published prior to the international filing date but an the priority date claimed	in the art. *&" document member of the same patent fa	amily	
Date of the actual completion of the international search Date of mailing of the international search rep				
		The or maining of the international seale	an report	
25 November 2004		02/12/2004		
Name and mailing address of the ISA				
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk		Authorized officer		
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.		Mionold N		
	Fax: (+31-70) 340-3016	Wienold, N		

INTERNATIONAL SEARCH REPORT

Inter Il Application No PCT/GB 03/05699

pation) DOCIMENTS CONCIDENTS TO BE SEE	PCT/GB_03/05699	
Cottogon B. Ohan and do annual market		
where appropriate, of the relevant passages	Relevant to claim No.	
SMITHSON A ET AL: "Engineering an agent-based peer-to-peer resource discovery system" AGENTS AND PEER-TO-PEER COMPUTING. FIRST INTERNATIONAL WORKSHOP, AP2PC 2002. REVISED AND INVITED PAPERS (LECTURE NOTES IN ARTIFICIAL INTELLIGENCE VOL.2530) SPRINGER-VERLAG BERLIN, GERMANY, 15 July 2002 (2002-07-15), pages 69-80, XP002302657 ISBN: 3-540-40538-0	2-14	
the whole document	1,15-19	
WEATHERSPOON H ET AL: "Silverback: A global-scale archival system" INTERNET, March 2001 (2001-03), pages 1-15, XP002302722 BERKELEY, CALIFORNIA abstract; sections 3.1, 3.3., 4.3, 4.3.1	1-19	
MOJO NATION DOCS: "Technology Overview of Mojo Nation" INTERNET, 14 February 2000 (2000-02-14), pages 1-5, XP002177454 the whole document	1-19	
	SMITHSON A ET AL: "Engineering an agent-based peer-to-peer resource discovery system" AGENTS AND PEER-TO-PEER COMPUTING. FIRST INTERNATIONAL WORKSHOP, AP2PC 2002. REVISED AND INVITED PAPERS (LECTURE NOTES IN ARTIFICIAL INTELLIGENCE VOL.2530) SPRINGER-VERLAG BERLIN, GERMANY, 15 July 2002 (2002-07-15), pages 69-80, XP002302657 ISBN: 3-540-40538-0 the whole document WEATHERSPOON H ET AL: "Silverback: A global-scale archival system" INTERNET, March 2001 (2001-03), pages 1-15, XP002302722 BERKELEY, CALIFORNIA abstract; sections 3.1, 3.3., 4.3, 4.3.1 MOJO NATION DOCS: "Technology Overview of Mojo Nation" INTERNET, 14 February 2000 (2000-02-14), pages 1-5, XP002177454	